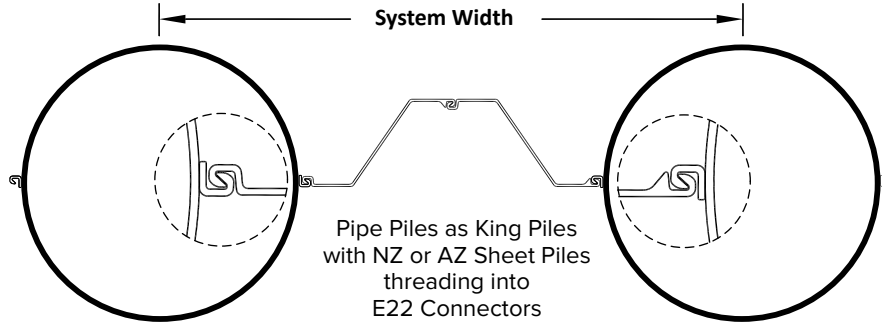


Pipe-Z

Pipe-Z Combined Wall Systems

Pipe-Z System



Pipe-Z System Combination Sample	Sheet Pile Section	PROPERTIES OF PIPE PILE			PROPERTIES OF COMBINED WALL							COATING	
		Outside Diameter in mm	Wall Thickness in mm	Pipe Weight lb/ft kg/m	System Width in mm	System Inertia in ⁴ /ft cm ⁴ /m	Section Modulus in ³ /ft cm ³ /m	WEIGHT (Sheet Pile Length/Pipe Length)			Cross Sectional Area in ² /ft cm ² /m		Both Sides of Wall ft ² /ft m ² /m
								100% lb/ft ² kg/m ²	80% lb/ft ² kg/m ²	60% lb/ft ² kg/m ²			
PAZ30/AZ14-770	AZ 14-770	30.00 762.00	0.312 7.9	99.02 147.36	92.98 2362	525 71696	35.0 1882	28.4 138.7	25.3 123.4	22.2 108.2	8.35 176.7	20.98 6.40	
PAZ30/AZ18	AZ 18	30.00 762.00	0.375 9.5	118.76 176.74	81.96 2082	712 97257	47.5 2553	34.1 166.6	30.8 150.2	27.4 133.9	10.02 212.2	20.06 6.12	
PAZ36/AZ14-770	AZ 14-770	36.00 914.40	0.375 9.5	142.81 212.53	98.98 2514	912 124510	50.7 2723	32.0 156.2	29.1 141.9	26.1 127.5	9.40 199.0	22.55 6.87	
PAZ36/NZ19	NZ 19	36.00 914.40	0.500 12.7	189.75 282.38	93.48 2374	1295 176814	71.9 3867	40.3 196.8	37.1 181.2	33.9 165.6	11.84 250.7	22.71 6.92	
PAZ42/AZ14-770	AZ 14-770	42.00 1066.80	0.438 11.1	194.60 289.61	104.98 2666	1510 206230	71.9 3866	36.1 176.2	33.3 162.7	30.5 149.2	10.60 224.4	24.12 7.35	
PAZ42/NZ19	NZ 19	42.00 1066.80	0.500 12.7	221.82 330.11	99.48 2527	1850 252623	88.1 4736	41.7 203.8	38.7 189.2	35.7 174.5	12.27 259.6	24.28 7.40	
PAZ42/AZ23-800	AZ 23-800	42.00 1066.80	0.625 15.9	276.44 411.39	107.35 2727	2181 297846	103.9 5584	46.7 228.0	43.5 212.6	40.4 197.2	13.72 290.5	25.76 7.85	
PAZ42/AZ38-700N	AZ 38-700N	42.00 1066.80	0.750 19.1	330.72 492.18	99.48 2527	2879 393193	137.1 7372	62.1 303.2	57.7 281.5	53.2 259.8	18.25 386.3	25.44 7.75	
PAZ48/AZ14-770	AZ 14-770	48.00 1219.20	0.500 12.7	253.89 377.84	110.98 2819	2369 323472	98.7 5306	40.5 198.0	37.9 185.2	35.3 172.4	11.91 252.2	25.69 7.83	
PAZ48/NZ19	NZ 19	48.00 1219.20	0.625 15.9	316.52 471.05	105.48 2679	3117 425697	129.9 6983	50.1 244.8	47.3 231.0	44.5 217.2	14.73 311.9	25.85 7.88	
PAZ48/AZ23-800	AZ 23-800	48.00 1219.20	0.750 19.1	378.83 563.77	113.35 2879	3515 479970	146.5 7874	55.1 268.9	52.1 254.3	49.1 239.7	16.18 342.5	27.33 8.33	
PAZ48/AZ38-700N	AZ 38-700N	48.00 1219.20	0.875 22.2	440.80 655.99	105.48 2679	4455 608417	185.6 9981	71.1 347.1	66.9 326.7	62.7 306.2	20.89 442.2	27.01 8.23	
PAZ54/AZ14-770	AZ 14-770	54.00 1371.60	0.563 14.3	321.61 478.62	116.98 2971	3549 484705	131.5 7068	45.4 221.7	42.9 209.6	40.4 197.5	13.34 282.4	27.27 8.31	
PAZ54/NZ19	NZ 19	54.00 1371.60	0.625 15.9	356.61 530.71	111.48 2832	4158 567781	154.0 8279	51.8 252.7	49.1 239.7	46.4 226.6	15.21 321.9	27.42 8.36	
PAZ54/AZ23-800	AZ 23-800	54.00 1371.60	0.750 19.1	426.93 635.36	119.35 3032	4686 639866	173.5 9330	57.1 279.0	54.3 265.1	51.5 251.2	16.79 355.4	28.91 8.81	
PAZ54/AZ38-700N	AZ 38-700N	54.00 1371.60	0.875 22.2	496.92 739.51	111.48 2832	5891 804396	218.2 11730	73.3 357.9	69.3 338.6	65.4 319.2	21.54 456.0	28.58 8.71	

Size Range: The combinations above are just a sample of the thousands of possibilities that are available with the Pipe-Z System.

System Width: For a given strength or stiffness requirement, using larger diameter pipes and wider sheet piles (new 800 mm sections) will maximize the efficiency of the wall.

A larger system width reduces the number of connectors to weld, piles to drive, and tierods to install.

Contact your local Nucor Skyline representative to check on pricing and availability of your system.

Pipe-Z

Pipe-Z Combined Wall Systems

Pipe AZ System

Pipe-Z System Combination Sample	Sheet Pile Section	PROPERTIES OF PIPE PILE			PROPERTIES OF COMBINED WALL							COATING	
		Outside Diameter in mm	Wall Thickness in mm	Pipe Weight lb/ft kg/m	System Width in mm	System Inertia in ⁴ /ft cm ⁴ /m	Section Modulus in ³ /ft cm ³ /m	WEIGHT (Sheet Pile Length/Pipe Length)			Cross Sectional Area in ² /ft cm ² /m	Both Sides of Wall ft ² /ft m ² /m	
								100% lb/ft ² kg/m ²	80% lb/ft ² kg/m ²	60% lb/ft ² kg/m ²			
PAZ60/AZ14-770	AZ 14-770	60.00 1524.00	0.625 15.9	396.70 590.37	122.98 3124	5098 696115	169.9 9136	50.5 246.7	48.2 235.1	45.8 223.6	14.85 314.2	28.84 8.79	
PAZ60/NZ19	NZ 19	60.00 1524.00	0.750 19.1	475.04 706.95	117.48 2984	6391 872780	213.0 11454	61.2 298.9	58.7 286.5	56.1 274.1	17.99 380.7	28.99 8.84	
PAZ60/AZ23-700	AZ 23-800	60.00 1524.00	0.875 22.2	553.04 823.03	125.35 3184	7004 956387	233.5 12551	66.5 324.6	63.8 311.4	61.1 298.1	19.53 413.5	30.48 9.29	
PAZ60/AZ38-700N	AZ 38-700N	60.00 1524.00	1.000 25.4	630.71 938.62	117.48 2984	8567 1169817	285.6 15352	83.2 406.4	79.5 388.0	75.7 369.6	24.46 517.7	30.15 9.19	
PAZ66/AZ14-770	AZ 14-770	66.00 1676.40	0.688 17.5	480.35 714.86	128.98 3276	7084 967362	214.7 11541	56.0 273.2	53.7 262.2	51.4 251.2	16.44 348.0	30.41 9.27	
PAZ66/NZ19	NZ 19	66.00 1676.40	0.750 19.1	523.14 778.54	123.48 3136	8079 1103222	244.8 13162	62.9 307.2	60.5 295.4	58.1 283.6	18.49 391.3	30.56 9.32	
PAZ66/AZ23-800	AZ 23-800	66.00 1676.40	0.875 22.2	609.16 906.56	131.35 3336	8866 1210754	268.7 14445	68.6 334.8	66.0 322.2	63.4 309.5	20.15 426.5	32.05 9.77	
PAZ66/AZ38-700N	AZ 38-700N	66.00 1676.40	1.000 25.4	694.85 1034.08	123.48 3136	10793 1473880	327.1 17584	85.4 417.1	81.8 399.6	78.3 382.1	25.10 531.3	31.72 9.67	
PAZ72/AZ14-770	AZ 14-770	72.00 1828.80	0.750 19.1	571.25 850.13	134.98 3428	9548 1303904	265.2 14260	61.5 300.5	59.4 290.0	57.2 279.5	18.09 382.8	31.98 9.75	
PAZ72/NZ19	NZ 19	72.00 1828.80	0.813 20.7	618.68 920.73	129.48 3289	10796 1474260	299.9 16123	68.9 336.2	66.6 324.9	64.2 313.7	20.23 428.2	32.13 9.79	
PAZ72/AZ23-800	AZ 23-800	72.00 1828.80	0.875 22.2	665.29 990.08	137.35 3489	10989 1500565	305.2 16411	70.5 344.1	68.0 332.0	65.5 320.0	20.71 438.3	33.62 10.25	
PAZ72/AZ38-700N	AZ 38-700N	72.00 1828.80	1.000 25.4	758.99 1129.53	129.48 3289	13324 1819541	370.1 19899	87.4 426.8	84.0 410.1	80.6 393.4	25.68 543.6	33.29 10.15	
PAZ78/AZ23-800	AZ 23-800	78.00 1981.20	0.875 22.2	721.41 1073.60	143.35 3641	13375 1826459	343.0 18438	72.2 352.6	69.9 341.1	67.5 329.5	21.22 449.2	35.19 10.73	
PAZ78/AZ38-700N	AZ 38-700N	78.00 1981.20	1.000 25.4	823.13 1224.98	135.48 3441	16165 2207429	414.5 22284	89.2 435.6	86.0 419.7	82.7 403.7	26.22 554.9	34.86 10.63	
PAZ84/AZ23-800	AZ 23-800	84.00 2133.60	0.875 22.2	777.53 1157.12	149.35 3794	16030 2188975	381.7 20520	73.8 360.5	71.6 349.4	69.3 338.3	21.69 459.2	36.76 11.20	
PAZ84/AZ38-700N	AZ 38-700N	84.00 2133.60	1.000 25.4	887.27 1320.44	141.48 3594	19319 2638067	460.0 24729	90.9 443.7	87.8 428.4	84.6 413.2	26.70 565.2	36.43 11.11	

Size Range: The combinations above are just a sample of the thousands of possibilities that are available with the Pipe-Z System.

System Width: For a given strength or stiffness requirement, using larger diameter pipes and wider sheet piles (new 800 mm sections) will maximize the efficiency of the wall.

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Pipe-Z

Pipe-Z Combined Wall Systems

Available Steel Grades

ASTM	Yield Strength		PIPE		SHEET PILE	CONNECTORS
	ksi	MPa	Spiralweld	Rolled & Welded	AZ	E22
A 139 Grade A	30	205	✓	✓		
A 139 Grade B	35	240	✓	✓		
A 139 Grade C	42	290	✓	✓		
A 139 Grade D	46	315	✓	✓		
A 139 Grade E	52	360	✓	✓		
A 252 Grade 1	30	205	✓	✓		
A 252 Grade 2	35	240	✓	✓		
A 252 Grade 3	45	310	✓	✓		
A 252 Grade 3 (Mod)	50	345	✓*	✓		
A 252 Grade 3 (Mod)	60	415	✓	✓		
A 328	39	270			✓	
A 36	36	250		✓		
A 516 Grade 55	30	205		✓		
A 516 Grade 60	32	220		✓		
A 516 Grade 65	35	240		✓		
A 516 Grade 70	38	260		✓		
A 572 Grade 42	42	290		✓	✓	
A 572 Grade 50	50	345		✓	✓	
A 572 Grade 55	55	380		✓	✓	
A 572 Grade 60	60	415		✓	✓	
A 572 Grade 65	65	450		✓	✓	
A 588	50	345	✓	✓		
A 690	50	345	✓		✓	✓
A 690 (Mod)	57	390			✓**	
A 709	50	345	✓			
A 1011/1018	50	345	✓			
Abrasion Resistant	Brinell Hardness – 190		✓			
EN 10248						
S 240 GP	35	240			✓	
S 270 GP	39	270			✓	
S 320 GP	46	315			✓	
S 355 GP	51	355			✓	✓
S 390 GP	57	390			✓	
S 430 GP	62	430			✓	
S 460 AP	67	460			✓	
CSA G40.21						
Grade 260 W	38	260			✓	
Grade 300 W	43	297			✓	
Grade 350 W	51	355			✓	
Grade 400 W	58	400			✓	

Highlighted fields represent the most commonly used and readily available steel grades. Additional grades available upon request. Please call with any questions or special requests.

*Availability is dependent on pipe diameter and thickness. **Not available for AZ 36-700N and larger.

Pipe-Z

Pipe-Z Combined Wall Systems

Delivery Conditions & Tolerances

ASTM	SHEET PILE	
	AZ	
	ASTM	EN10248
Mass	± 2.5%	± 5%
Length	+ 5 in.	± 200 mm
Height		± 7 mm
Thickness		≤ 8.5 mm > 8.5 mm
Width		± 2%
Double Pile Width		± 3%
Interlock Opening		
Straightness		0.2% of the length
Ends out of Square		2% of the width
Twisting		

ASTM	PIPE	
	Spiralweld	Rolled & Welded
	ASTM	ASTM
Outside Diameter	± 1%	± 1%
Weight/Thickness	- 5%	Per Specification
Length	± 1 in.	± 1 in.

Maximum Rolled Lengths[†]

	Length (ft)	Length (m)
Spiralweld	130 ft.	39.6 m
Rolled & Welded	120 ft.	36.6 m
E22	59 ft.	18.0 m
AZ	102 ft.	31.0 m
NZ	90 ft.	27.4 m

[†] All sections are readily spliced for longer lengths.